Synology 101 Series

User's Guide

Syno101Series_UG_20060110_enu

Synology

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Index

Safety Warnings and Instructions 4
About this User's Guide 5
Get to know your Disk Station 6
Introduction 6
File Server 6
Backup Server 6
FTP Server 7
Entertainment Application 7
USB Printer Server 8
Specification 8
Limitations 9
Appearance 9
LED Indication Descriptions Table 10
Managing Synology Server 12
Entering Web Management UI 12
Using Setup Utility 12
Accessing Web Management UI Manually 14
Manage Synology Server 14
Accessing Synology Server Data 16
Shared Folders 16
System Built-in 16
Administrator-Created 16
Setting Access Control 17
Setting Encoding 18
Accessing Shared Folders 18
Windows User 18
Mac User 20
Server Backup and PC Backup Solutions 21
Local Backup 21
Network Backup 22
Backup Personal Data 23
Before starting 23
Minimum System Requirement 23
Installing Synology Data Replicator II 23
Using Synology Data Replicator II 24
Backup Synology Server Settings 24
Synology Server to PC Client 24
Synology Server to another Synology Server 25
Sharing USB Printer 26
Extra Features 27
Web Station 27
Enabling Web Station and MySQL 27
Web Station's detail description 27
Photo Station 27
Enabling Photo Station 27
Photo Station's detail description 28
FTP Service 28
USBCopy 29
Setting USBCopy Target Location 29
Mail Notification 30
Firmware Update 31
Expand HDD Capacity 32
External HDD 32
External USB HDD 32
External SATA HDD 32
Replacing Larger Internal HDD 33
Troubleshooting 34

Appendix 35
Recommended Peripherals 35
Recommended SATA HDD 35
Recommended IDE HDD 35
Recommended USB Printer 36
Recommended NTP Server 37

Safety Warnings and Instructions

Please read this safety warnings and instructions carefully before use, and keep it well for your future reference.

1. Do not place the product in direct sunlight or near chemicals. Make sure that the environment does not experience abrupt changes in temperature or humidity.
2. Before cleaning, please unplug the power cord first. Wipe the product with wet paper towers. Do not use chemical or aerosol cleaners to clean it.
3. Do not put the product close to any liquid.
4. Do not put the product on a cart, table, or desk, which is not stable to avoid falling off.
5. Keep the product stand erect. Do not lay it down horizontally.
6. There are ventilation openings on the side covers. To make sure the product is operating under normal condition, please do not block or cover the openings to avoid overheating.
7. Take extra care to allow sufficient air circulation or spaces for the product.
8. The connections and equipment which provides electricity to the product should be capable of operating safely with the maximum power requirements. In case of a power overload, the supply circuits and supply wiring should not become hazardous.
9. Do not allow anything to rest on the power cord and do not locate the product where anyone can walk on the power cord.
10. Do not attempt to repair the product by yourself. Opening or removing the covers can expose you to dangerous high voltage or other risks. Refer all service to qualified service personnel.

About this User’s Guide

This user's guide covers all the functions of Synology 101 series server. Some of the functions may only be available on specific models.

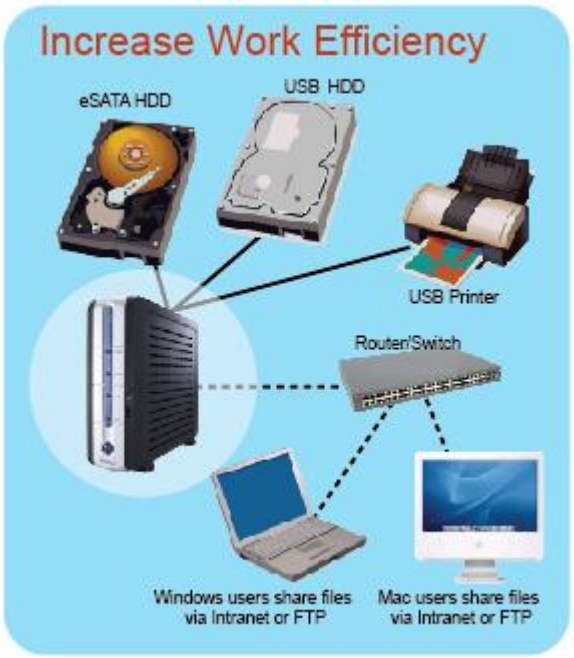
Get to know your Disk Station

Introduction

Congratulations on your purchase of Synology 101 series server ("Synology Server"). Synology Server is specially designed for SOHO and home users with multiple functions:

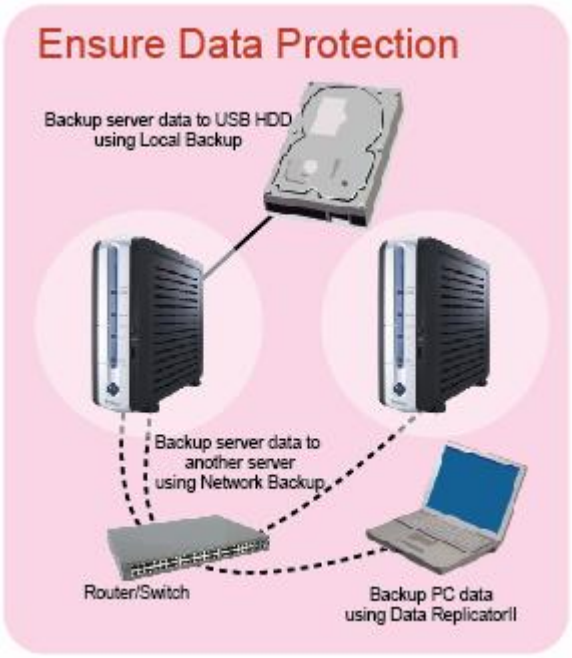
File Server

Windows and Mac users can easily share files within Intranet or through Internet. Unicode language support makes sharing different language files from Synology Server without problems.



Backup Server

Synology Server provides diverse backup solutions to backup Synology Server data or backup PC data to Synology Server.


Ensure Data Protection
Backup server data to USB HDD using Local Backup
Backup server data to another server using Network Backup
Router/Switch
Backup PC data using Data Replicator II

FTP Server

Synology Server provides FTP service with bandwidth restriction and anonymous login.

Entertainment Application

Personal or corporate website can be easily setup using “Web Station” function. By integrating with PHP and MySQL, user can also setup online shop.

“Photo Station” provides easy and fast method to share your photos online.

The build-in “Copy” button on the device allows instant copy of photos from the camera to Synology Server.

Enrich Entertainment Life
Save multimedia files instantly with USB Copy
Router/Switch
Browse photos with Photo Station
Browse website with Web Station

USB Printer Server

You can share USB 2.0 Printer through Local Area Network.

Specification

Item	DS-101g+	DS-101j
Hard Disk Interface	SATA	IDE
Maximum Capacity	500GB	500GB
USB 2.0 Ports	*3	*3
LAN Port	RJ-45 10/100/1000Mbps	RJ-45 10/100Mbps
USB Copy	Yes	Yes
Windows User	Windows 98 onward	Windows 98 onward
Mac User	Mac OS 9 onward	Mac OS 9 onward
Maximum User Accounts	128	128
Maximum Group Accounts	64	64
Maximum Shared Folder	100	100
Maximum Concurrent Connections	32	32
NTP	Yes	Yes
FTP	Yes	Yes
Language Localization	English, French, German, Korean, Italian, Spanish, Traditional Chinese, Simplified Chinese	English, French, German, Korean, Italian, Spanish, Traditional Chinese, Simplified Chinese
CPU	Freescale MPC 8241	Intel IXP420BB
Memory（SDRAM）	64MB	32MB
Memory（Flash）	16MB	2MB
eSATA Port	*1	No
HDD Hibernation	Yes	Yes
Event Notification	Yes	Yes
Agency Certifications	FCC Class B、CE、BSMI、C-Tick	FCC Class B、CE、BSMI、C-Tick
Dimension	18.1cm x 21.2cm x 6.0cm	18.1cm x 21.2cm x 6.0cm
Weight	0.5kg (excluding HDD)	0.5kg (excluding HDD)
Power	Line voltage	Line voltage

Item	DS-101g+	DS-101j
Consumption And Environment Requirements	100V to 240V AC Frequency 50Hz to 60Hz Power Consumption Standby: 14.64W Working: 17.88W Hibernation: 6.72W Operating Temperature 50 to 95° F (10 to 35° C) Storage Temperature -40 to 185° F (-10 to 70 ° C) Relative Humidity 5% to 95% RH Maximum Operating Altitude 10,000 feet	100V to 240V AC Frequency 50Hz to 60Hz Power Consumption Standby: 11.4W Working: 12.12W Hibernation: 6.12W Operating Temperature 50 to 95° F (10 to 35° C) Storage Temperature -40 to 185° F (-10 to 70 ° C) Relative Humidity 5% to 95% RH Maximum Operating Altitude 10,000 feet

Limitations

1. Supports up to 1 USB printer.
2. Supports up to 3 USB disks.
3. USB Copy function only supports USB disks with FAT32 file system.
4. Some digital cameras are defined as a Still Image Device, such as Canon. For such devices, Synology Server only supports USB Copy function (No USB share function).
5. For Mac users, Synology Server supports only USB printers with PostScript.

Appearance

Article Name	Location	Description
Power Button	Front Panel	The Power Button is used to turn the Synology Server On or Off. 1. It will take approximately 30 seconds to 1 minute to turn on Synology Server. 2. To turn Off Synology Server, press the Power Button until you hear a "beep" and the Power LED begins blinking. The shutdown process will complete in 30 seconds.
COPY Button	Front Panel	The COPY Button lights up when you connect a USB Device (for example: digital camera, USB flash

		disk). Pressing the button will copy the data from the connected USB device to the Synology Server's internal HDD.
USB Port	Front Panel	The Synology Server offers 3 USB ports for adding additional external hard drives, USB printers, or other USB devices. One at the front, and other two at the back.
Smart Fan Ventilation	Front Panel	The Smart Fan is to exhaust waste heat out of the Synology Server. The Smart Fan will start automatically when the internal system temperature reaches 46 °C. If the fan is malfunctioning, system will "beep" every five seconds. Available for DS-101g+ only.
eSATA Port	Back Panel	The eSATA port is for connecting with an external SATA HDD. Available for DS-101g+ only.
RESET Button	Back Panel	Pressing the RESET button will restore IP, DNS, and passwords for "admin" and "guest" accounts to default value.
LAN Port	Back Panel	The LAN port is where you connect RJ-45 cable to Synology Server.
DC IN 12V Port	Back Panel	The DC IN 12V Port is where you connect the AC Power Adapter.

LED Indication Descriptions Table

LED Indication	Color	Status	Description
Power	BLUE	Blinking	• During System boot-up • During System shutdown
		Solid Light	System Ready
		Light Off	Power Off
Status	Green/Orange	Solid Green Light	Used HDD Capacity below 85%
		Solid Orange Light	Used HDD Capacity between 85% - 95%
		Blinking Orange Light	• Used HDD Capacity over 95% • HDD status abnormal • Restoring to default value • HDD has not been formatted
		Blinking after 5 seconds of Solid Orange Light	No HDD
		Light Off	System Startup/Off
HDD	Green	Blinking	During Read/Write
		Light Off	Can not Read/Write

LED Indication	Color	Status	Description
LAN	Green	Blinking	Normal operation
		Light Off	LAN cable not connected

Managing Synology Server

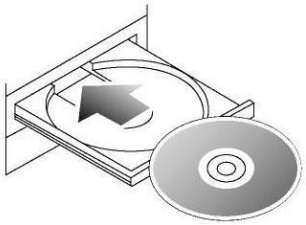
Entering Web Management UI

There are two options for you to enter the management UI:

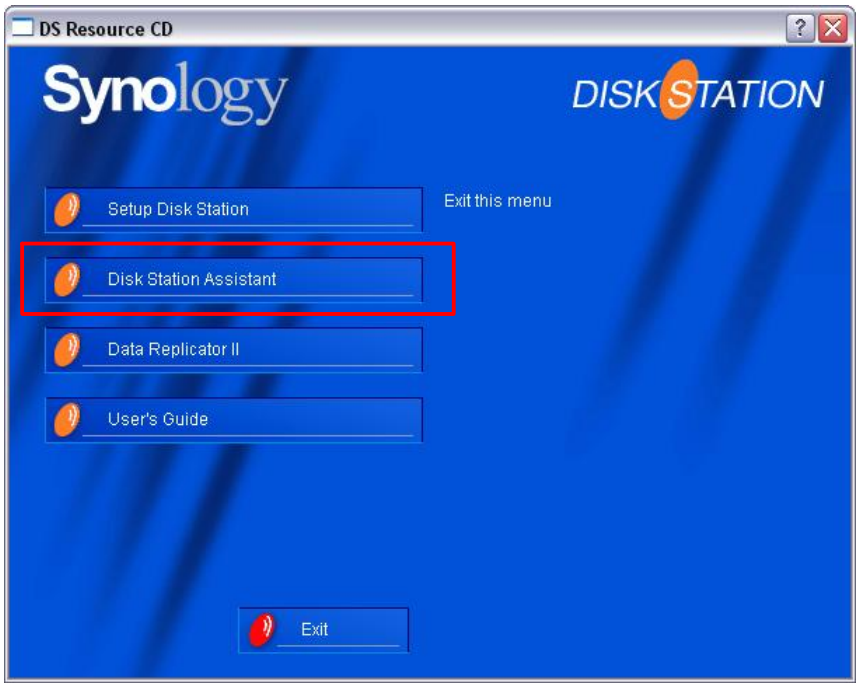
Using Setup Utility

[Windows User]

1. Insert the Installation CD into CD/DVD-Rom Drive.

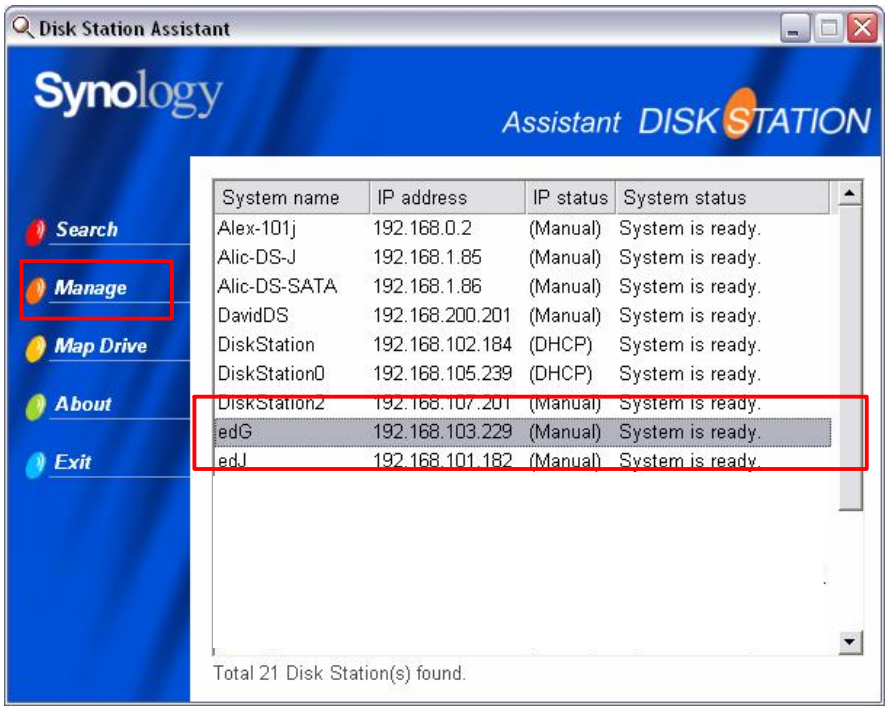


2. Choose “Disk Station Assistant” at the Autoup Menu.

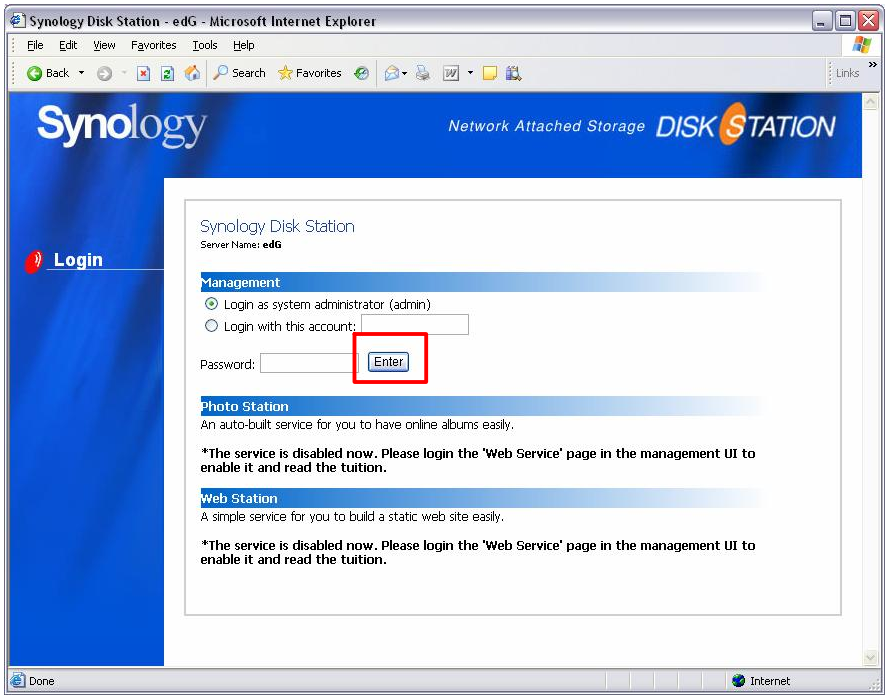


3. Follow the steps to complete installation.
4. After installation, double click on the desktop icon to execute the program.

5. Choose the server you want to manage and click “Manage” to enter the Web Management UI.



6. Choose “login as system administrator (admin)”, input password and click “Enter”.


Synology Disk Station - edG - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Synology
Network Attached Storage DISK STATION
Login
Synology Disk Station
Server Name: edG
Management
Login as system administrator (admin)
Login with this account:
Password:
Enter
Photo Station
An auto-built service for you to have online albums easily.
*The service is disabled now. Please login the 'Web Service' page in the management UI to enable it and read the tuition.
Web Station
A simple service for you to build a static web site easily.
*The service is disabled now. Please login the 'Web Service' page in the management UI to enable it and read the tuition.
Done
Internet

[Mac OSX User]

1. Insert the Installation CD into CD/DVD-Rom Drive.
2. Double-Click CD-Rom Drive thumbnail.
3. Double-Click "MacOSX" thumbnail.
4. Double-Click "DSAssistant-SYNOLOGY.dmg" thumbnail.

5. Double-Click "DSAssistant" thumbnail to run setup wizard.

6. Choose a Synology Server and click "Manage" to enter the Web Management UI.

7. Choose "login as system administrator (admin)", input password and click "Enter".

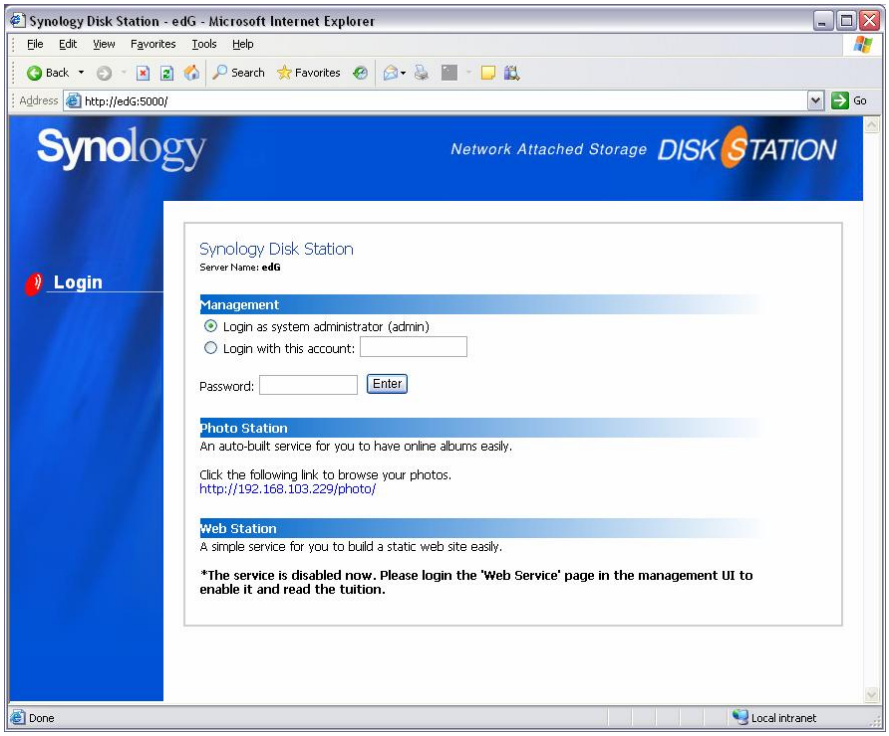
Please note:

PC User is recommended to use IE 6.0 or above; Mac User is recommended to use Safari 1.3 or IE 5.2 or above to ensure flawless management process.

Accessing Web Management UI Manually

1. Open web browser.

2. At the address line input “http://Synology_Server_Name:5000/", where “Synology_Server_Name” is the name you setup for Synology Server during the setup process.


Synology Disk Station - edG - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites
Address http://edG:5000/
Go
Synology
Network Attached Storage DISK STATION
Login
Synology Disk Station
Server Name: edG
Management
Login as system administrator (admin)
Login with this account:
Password:
Enter
Photo Station
An auto-built service for you to have online albums easily.
Click the following link to browse your photos.
http://192.168.103.229/photo/
Web Station
A simple service for you to build a static web site easily.
*The service is disabled now. Please login the 'Web Service' page in the management UI to enable it and read the tuition.
Done
Local intranet

3. Press “Enter” key on the keyboard.

4. Choose "login as system administrator (admin)".

5. Input password for admin.

6. Click “Enter” to access Web Management UI.

Manage Synology Server

You can start managing Synology Server in Web Management UI. Synology Server Web Management UI provides distinctive and straight forward design for easy management. You will find an online “Help” button on every page of the

Web Management UI. Click on the “Help” button for further information whenever you encounter any problem.

Accessing Synology Server Data

File sharing service is Synology Server's major function. Administrator can setup access rights for users either with Windows or Mac to access shared folders.

Shared Folders

System Built-in

public

After Synology Server is successfully set up, the shared folder “public” will be available for access instantly.

usbshare

After you connect external USB HDD to Synology Server’s USB port, system will automatically create a shared folder with the prefix “usbshare”. Refer to “Expand HDD Capacity > External HDD” section for details.

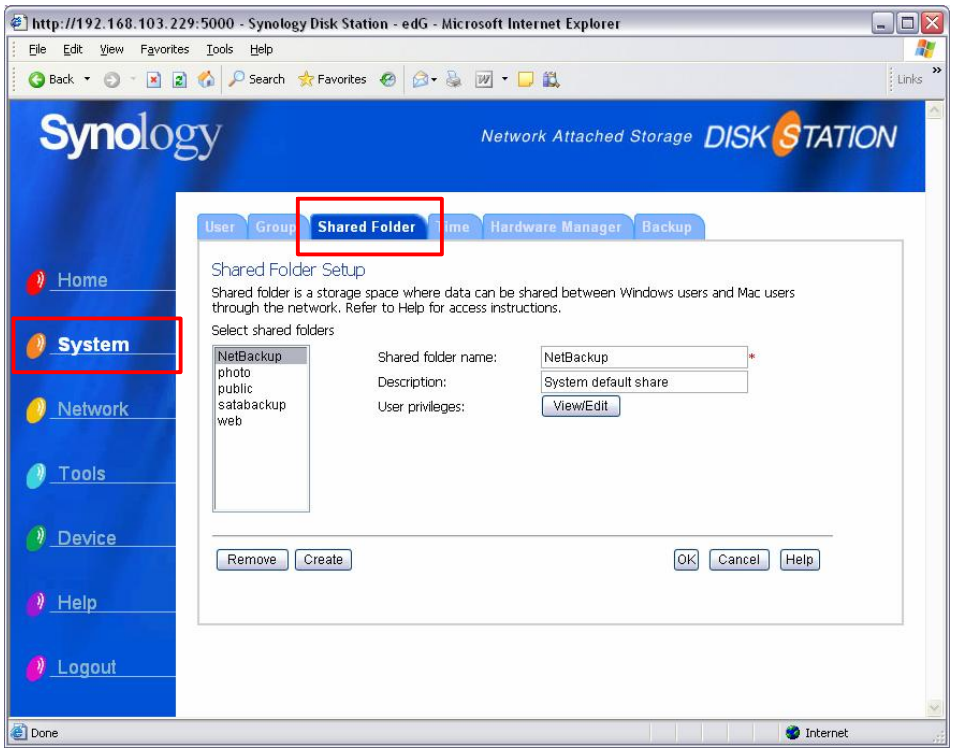
satashare

After you connect external SATA HDD to Synology Server’s eSATA port, system will automatically create “satashare” shared folder. Refer to “Expand HDD Capacity > External HDD” section for details.

Please note: Administrator can not delete the shared folders mentioned above.

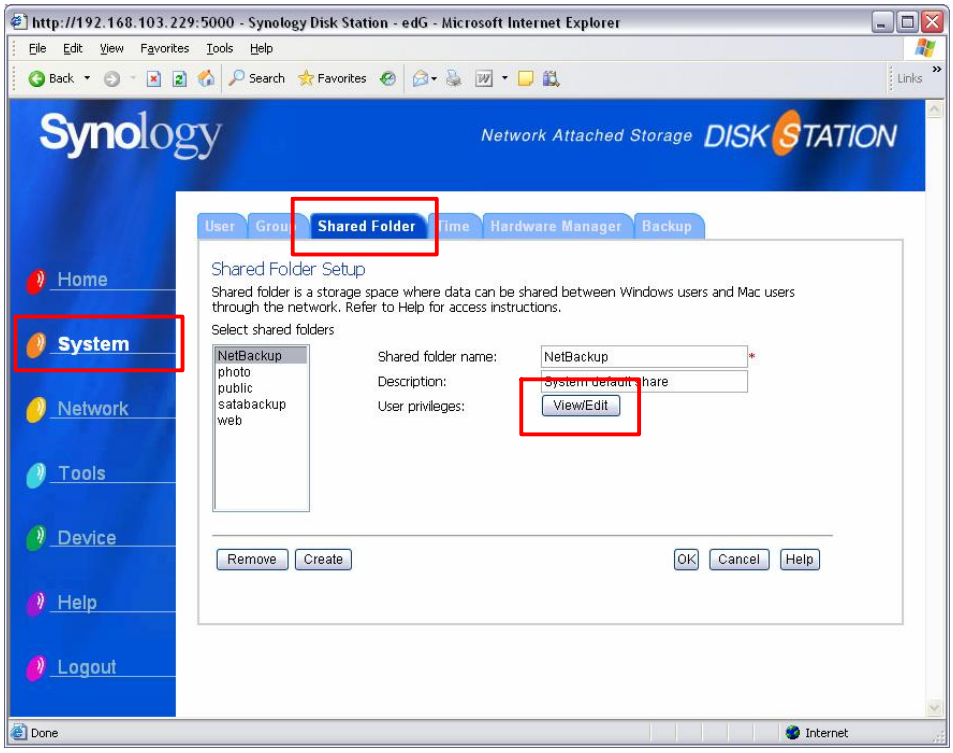
Administrator-Created

Apart from the above system built-in shared folders, Administrator can create shared folders on the page “System > Shared Folder” of the Web Management UI. Shared folders created by Administrator can be deleted or renamed at any time.



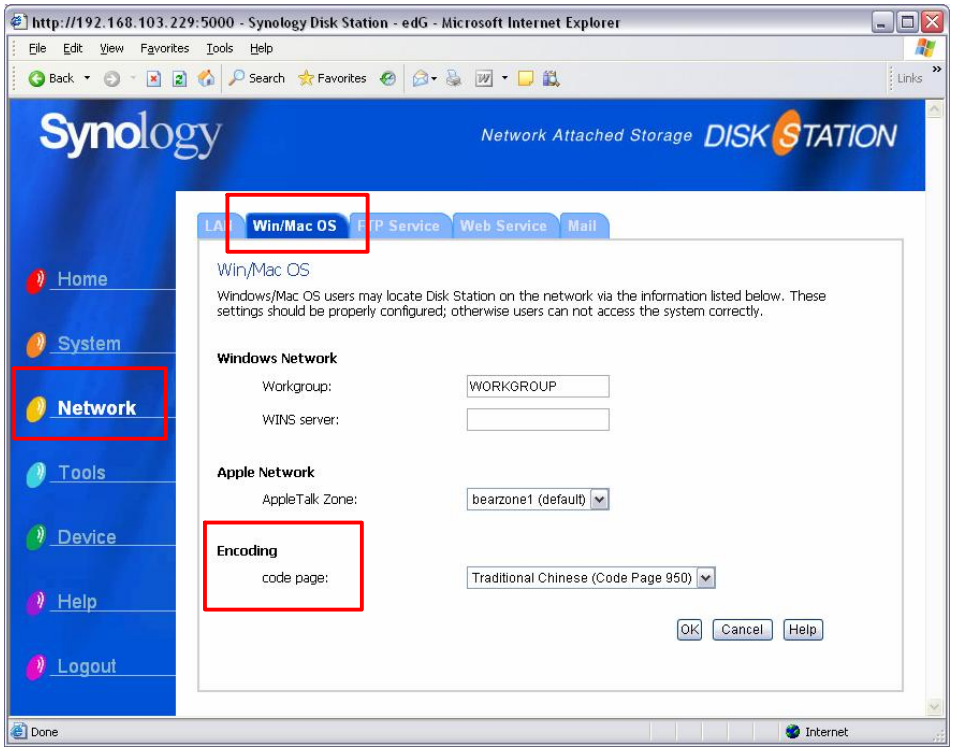
Setting Access Control

For security reasons, Administrator can go to the page “System > Shared Folder” of the Web Management UI and set access rights for different users by selecting the shared folder and clicking “View/Edit”.



Setting Encoding

Synology Server uses Unicode to manage files. The benefit of using Unicode is to avoid file inaccessibility between users who use different languages. However, for users without Unicode support on their PC, Administrator can set the encoding method of the files to overcome the problem. Please go to the page “Network > Win/Mac OS” of the Web Management UI for the setting.



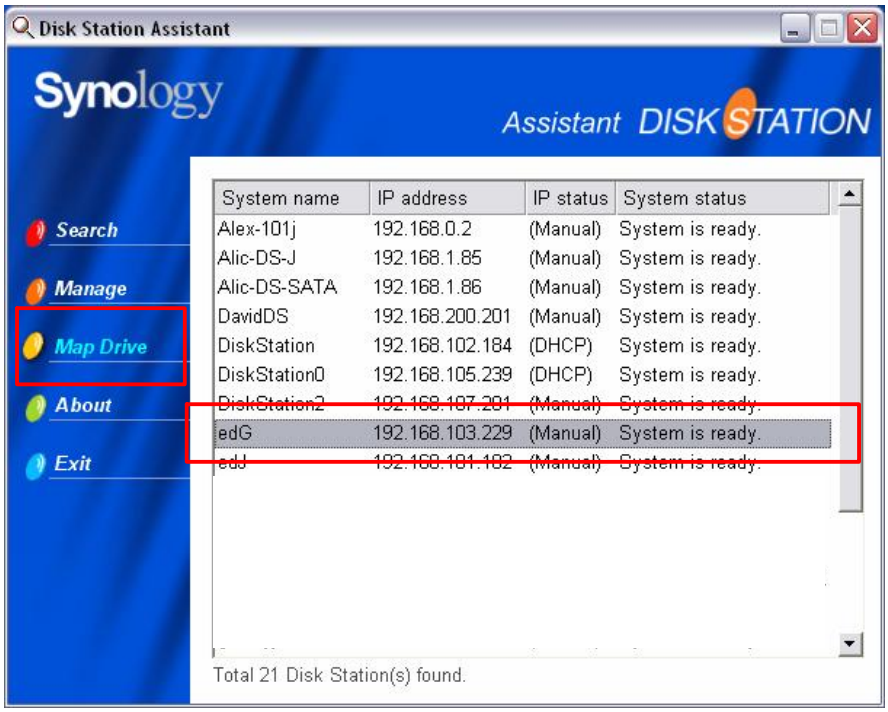
Accessing Shared Folders

Windows User

Windows users can access the Synology Server’s shared folders by using Setup Utility to map Network Drive

Disk Station Assistant, which is included in the Installation CD, not only helps Administrator manage Synology Server, but also provides users with the following steps to map Network Drive:

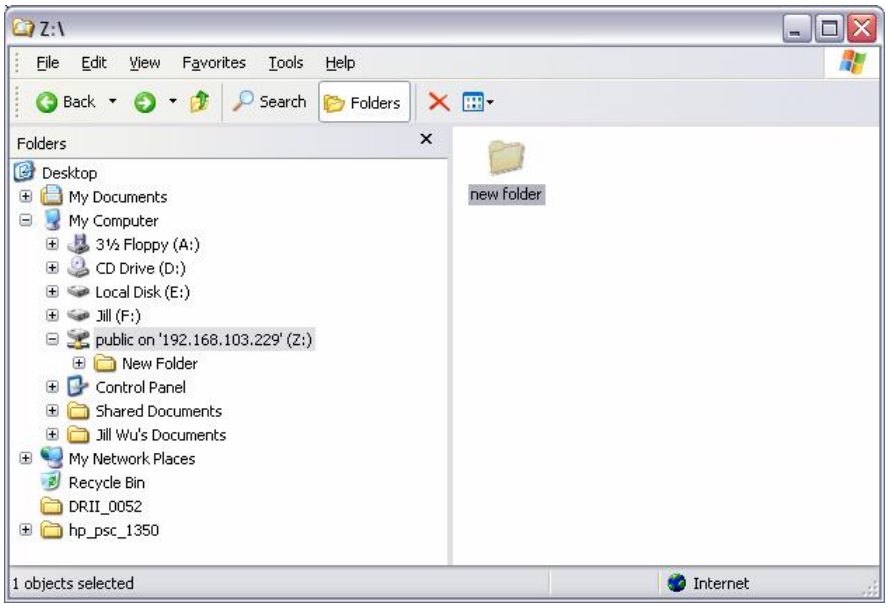
1. Run Disk Station Assistant.
2. Choose the server to map network drive.
3. Click on the “Map Drive” button on the left.



4. Follow the on-screen steps to finish the setup.

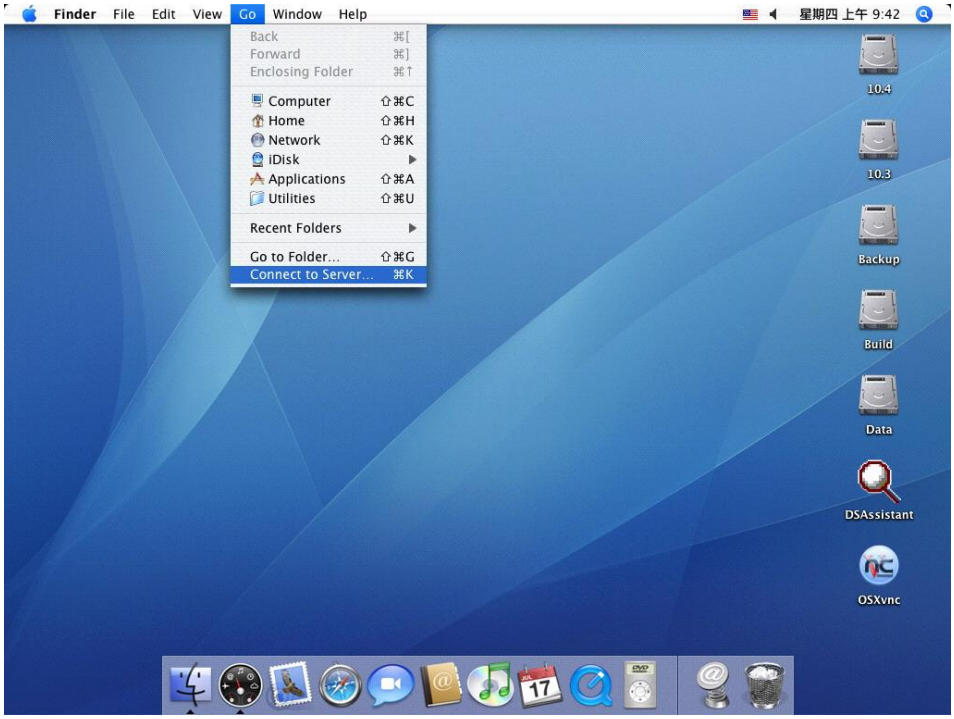
Map Drive Wizard - edG (192.168.103.229)
Succeed
DiskStation
Congratulation! You have successfully mapped a network drive. You can access it using [My Computer] from now on.
The information of this mapped drive:
Drive: Z:
Shared folder: \\192.168.103.229\public
User name: guest
Open the mapped drive.
< Back
Next >
Finish

5. Upon completion, user can access the mapped shared folder in Windows Explorer.



Mac User

Mac user can use ”Go > Connect to Server” to choose a Synology Server and access the shared folder on the server.



Server Backup and PC Backup Solutions

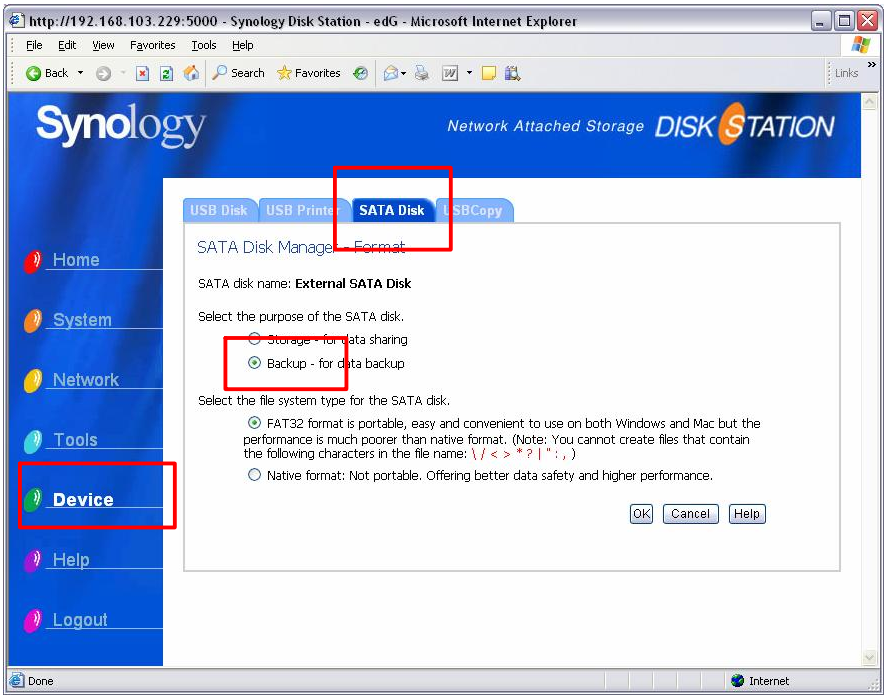
Synology Server provides complete backup solutions:

1. By using “Local Backup”, Administrator can backup Synology Server’s data to external USB or SATA HDD.
2. By using “Network Backup”, Administrator can backup Synology Server’s data to another Synology Server.
3. By installing Synology Data Replicator II software on the client PC, Windows users can backup data from PC to Synology Server.
4. Administrator can also backup Synology Server’s User, Group, and Shared folders (see details below).

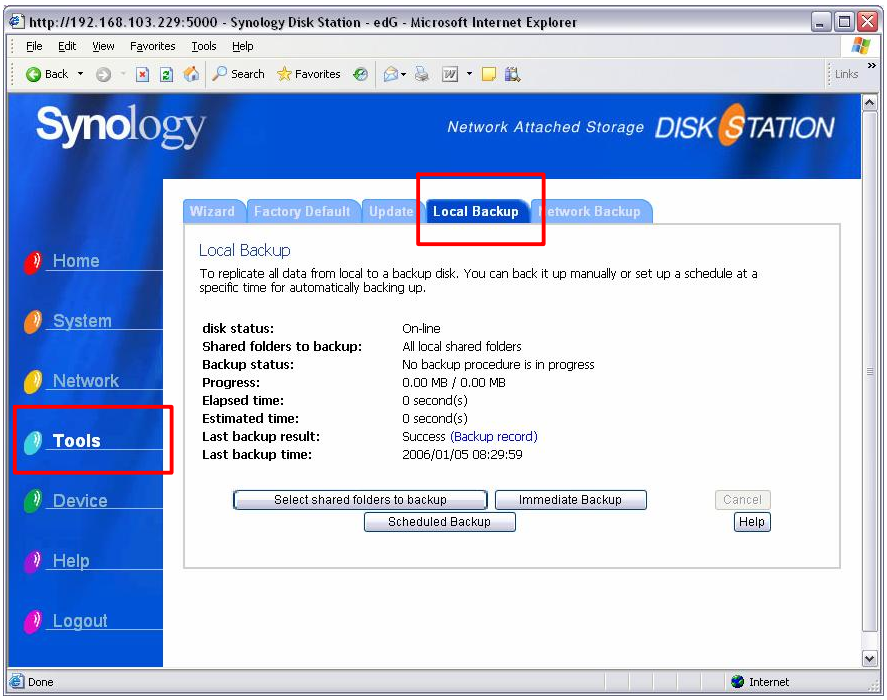
Local Backup

Please follow the below steps to perform Local Backup:

1. Connect an external USB HDD or SATA HDD to the corresponding port on Synology Server.
2. Go to the page “Device > USB Disk” or “Device > SATA Disk” of the Web Management UI, and format the HDD as “backup purpose”.

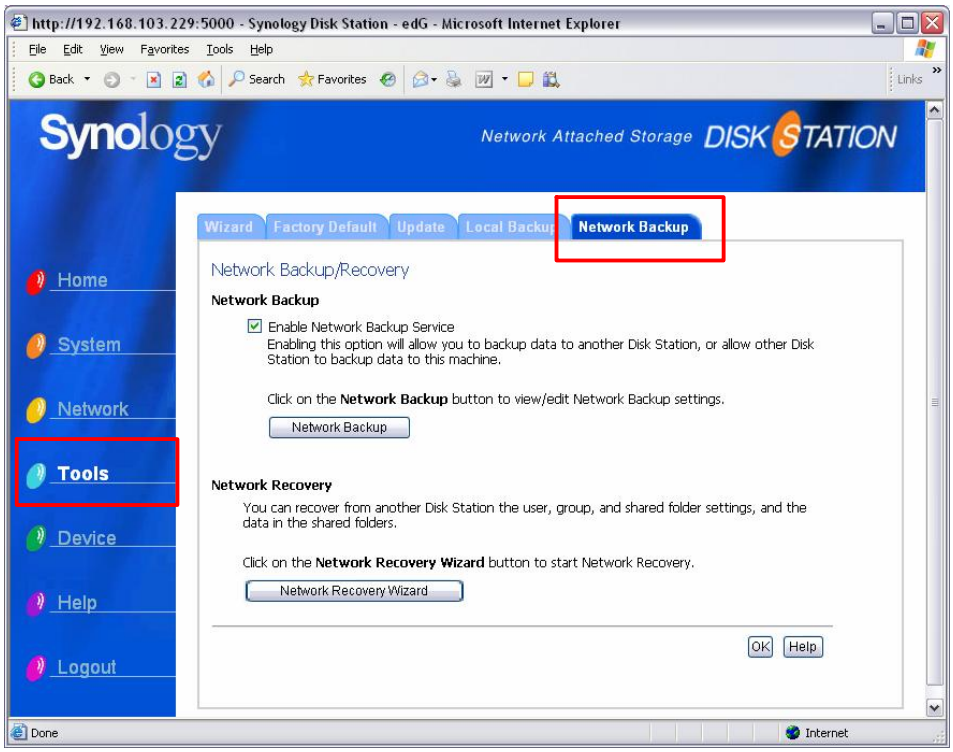

http://192.168.103.229:5000 - Synology Disk Station - edG - Microsoft Internet Explorer
Synology
Network Attached Storage DISK STATION
USB Disk
USB Printer
SATA Disk
USBCopy
SATA Disk Manage - Format
SATA disk name: External SATA Disk
Select the purpose of the SATA disk.
Storage - for data sharing
Backup - for data backup
Select the file system type for the SATA disk.
FAT32 format is portable, easy and convenient to use on both Windows and Mac but the performance is much poorer than native format. (Note: You cannot create files that contain the following characters in the file name: \ / < > * ? | " : ,)
Native format: Not portable. Offering better data safety and higher performance.
OK
Cancel
Help
Home
System
Network
Tools
Device
Help
Logout
Done
Internet

3. Go to the page “Tools > Local Backup” to setup your backup task.



Network Backup

Network Backup allows Administrator to backup Synology Server's data to another Synology Server through network. Please ensure Network Backup option is enabled on both Target and Client Server before performing the task. Go to "Tools > Network Backup" page for detail information.


http://192.168.103.229:5000 - Synology Disk Station - edG - Microsoft Internet Explorer
Synology
Network Attached Storage DISK STATION
Wizard
Factory Default
Update
Local Backup
Network Backup
Home
System
Network
Tools
Device
Help
Logout
Network Backup/Recovery
Network Backup
Enable Network Backup Service
Enabling this option will allow you to backup data to another Disk Station, or allow other Disk Station to backup data to this machine.
Click on the Network Backup button to view/edit Network Backup settings.
Network Backup
Network Recovery
You can recover from another Disk Station the user, group, and shared folder settings, and the data in the shared folders.
Click on the Network Recovery Wizard button to start Network Recovery.
Network Recovery Wizard
OK
Help
Done
Internet

Backup Personal Data

Windows users can install “Synology Data Replicator II” backup software which can be found on the installation CD. They can backup client PC data to Synology Server to maintain a good copy of data whenever needed.

Using Synology Data Replicator II, users can:

1. Monitor selected folders on client PC and perform real-time backup when any modification to the file is made.
2. Adjust backup versions and restore points.
3. Restore backup date on Synology Server to client PC at user’s preference.

Before starting

Before using Synology Data Replicator II, please ensure:

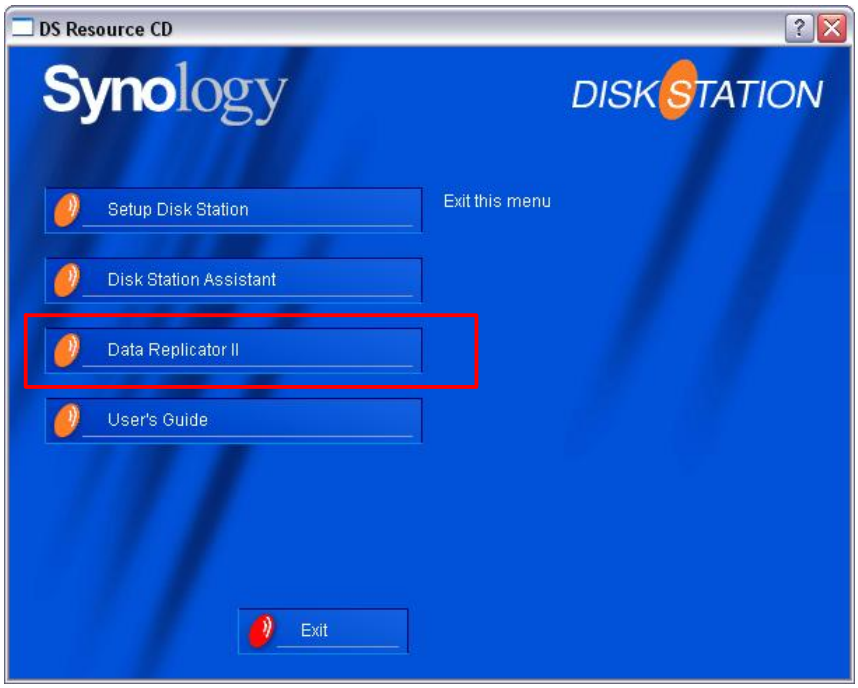
1. Client PC and Synology Server uses the same encoding for backup to perform adequately.
2. Synology Data Replicator II is the next generation of Synology Data Replicator. It can only restore backup data on Synology Server generated by itself. If users have backed up data on Synology Server using Synology Data Replicator, we recommend restoring data on Synology Server to PC first before using Synology Data Replicator II.

Minimum System Requirement

1. Free HDD Space: 5MB
2. Operating System: Windows 98/ME/NT/2000/XP
3. Best Screen Resolution: 1024*768 and above
4. Microsoft Networking over TCP/IP enabled and has network connection with Synology Server.

Installing Synology Data Replicator II

Insert Installation CD into Windows user CD/DVD-Rom drive. Click on “Synology Data Replicator II”, and follow on-screen instructions.



Using Synology Data Replicator II

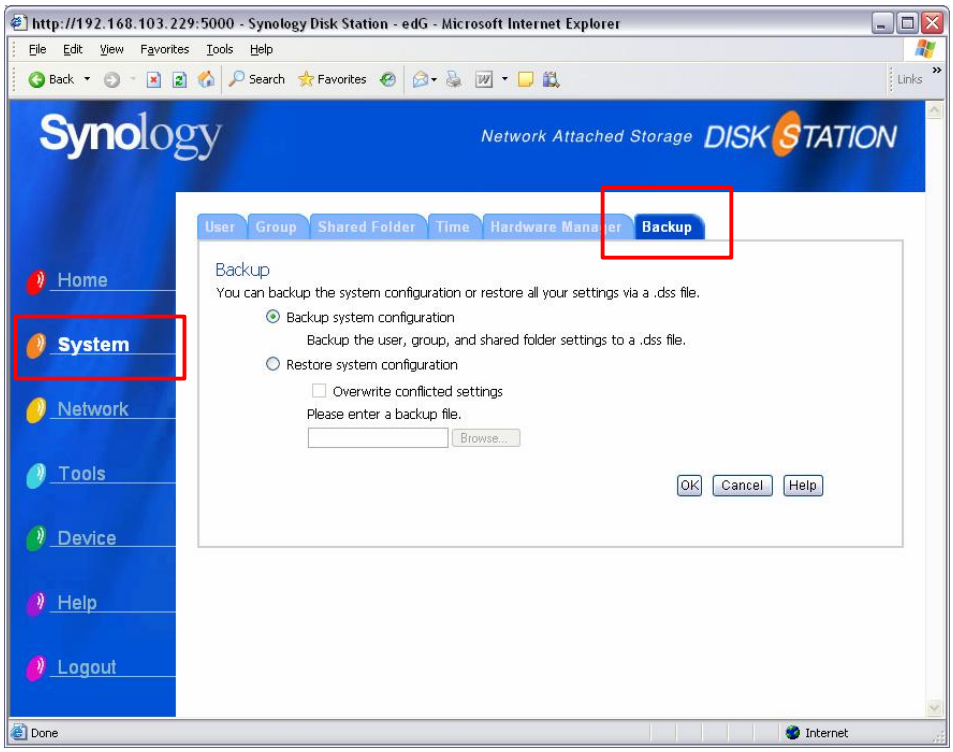
After installation, double click on the software icon to execute the program. Click on “Help” for detail description.

Backup Synology Server Settings

There are two options for you to backup Synology Server’s “User”, “Group”, “Shared Folder” settings for easy maintenance and restoration.

Synology Server to PC Client

Go to the page “System > Backup” of the Web Management UI to backup settings from Synology Server to PC Client.

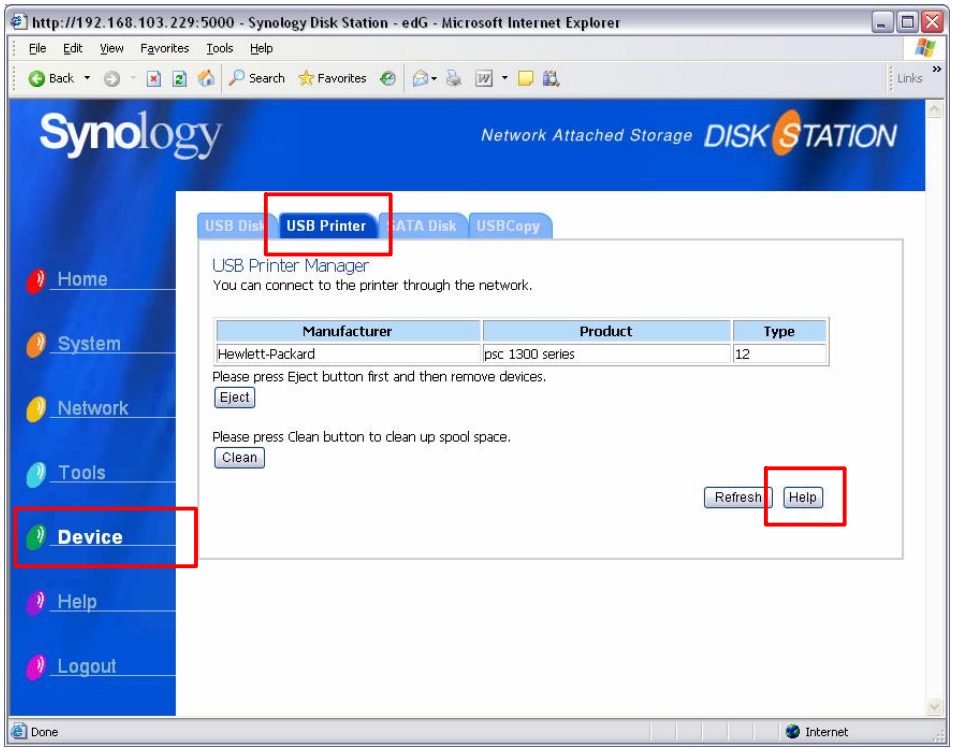


Synology Server to another Synology Server

The data backed up to another Synology Server using “Network Backup” automatically includes the “User”, “Group”, “Shared Folder” settings. When you recover the data, you can choose if you want to recover these settings.

Sharing USB Printer

Synology Server supports Windows 98 and above users, and Mac OS 9 and above users to share USB Printer. For the detailed settings on different platforms, please refer to the page “Device > USB Printer” of the Web Management UI.



Extra Features

Web Station

Personal or corporate website can be easily setup using “Web Station.” By integrating with PHP and MySQL, users can also setup online shop. PHP support is turned on by default, MySQL requires manually enabling.

Enabling Web Station and MySQL

Go to the “Network > Web Service” page.

Web Station’s detail description

Please click on “Here” link under “Enable Web Station”.

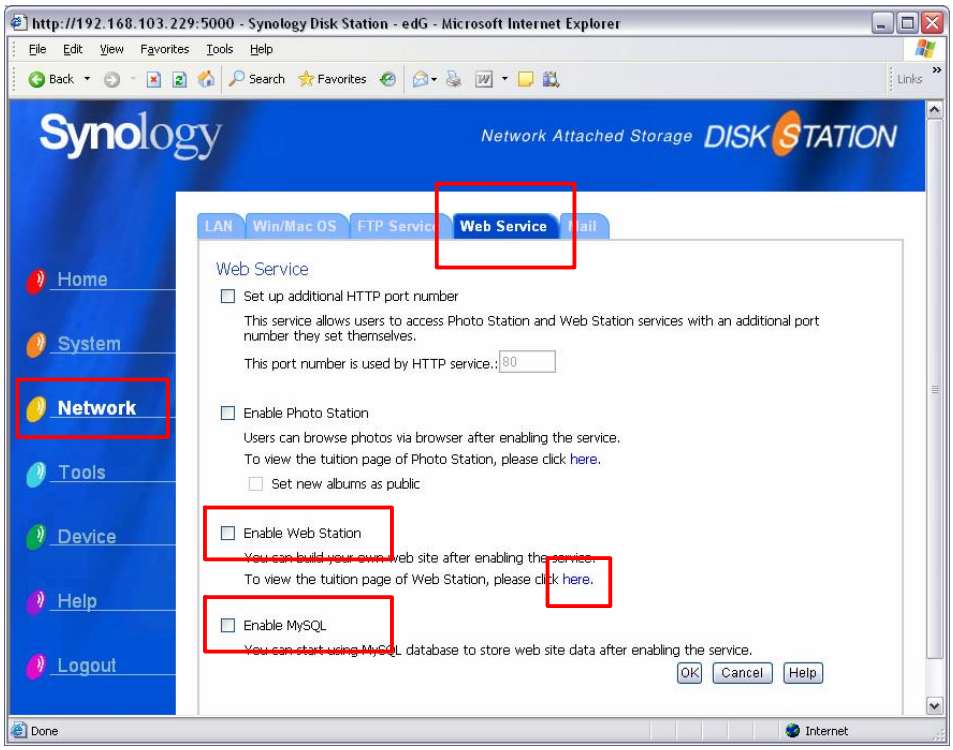

http://192.168.103.229:5000 - Synology Disk Station - edG - Microsoft Internet Explorer
Synology
Network Attached Storage DISK STATION
LAN
Win/Mac OS
FTP Servic
Web Service
Mail
Home
System
Network
Tools
Device
Help
Logout
Web Service
Set up additional HTTP port number
This service allows users to access Photo Station and Web Station services with an additional port number they set themselves.
This port number is used by HTTP service.:
80
Enable Photo Station
Users can browse photos via browser after enabling the service.
To view the tuition page of Photo Station, please click here.
Set new albums as public
Enable Web Station
You can build your own web site after enabling the service.
To view the tuition page of Web Station, please click here.
Enable MySQL
You can start using MySQL database to store web site data after enabling the service.
OK
Cancel
Help
Done
Internet

Photo Station

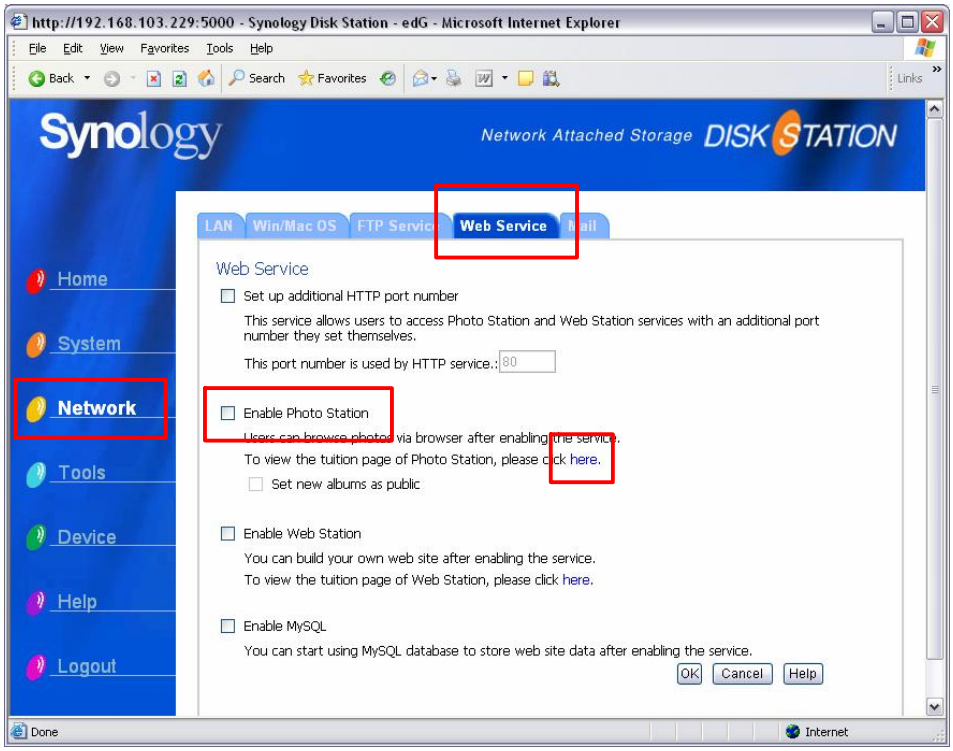
“Photo Station” provides easy and fast method to share your photos online. Access right control can be setup to effectively manage each album.

Enabling Photo Station

Go to the “Network > Web Service” page.

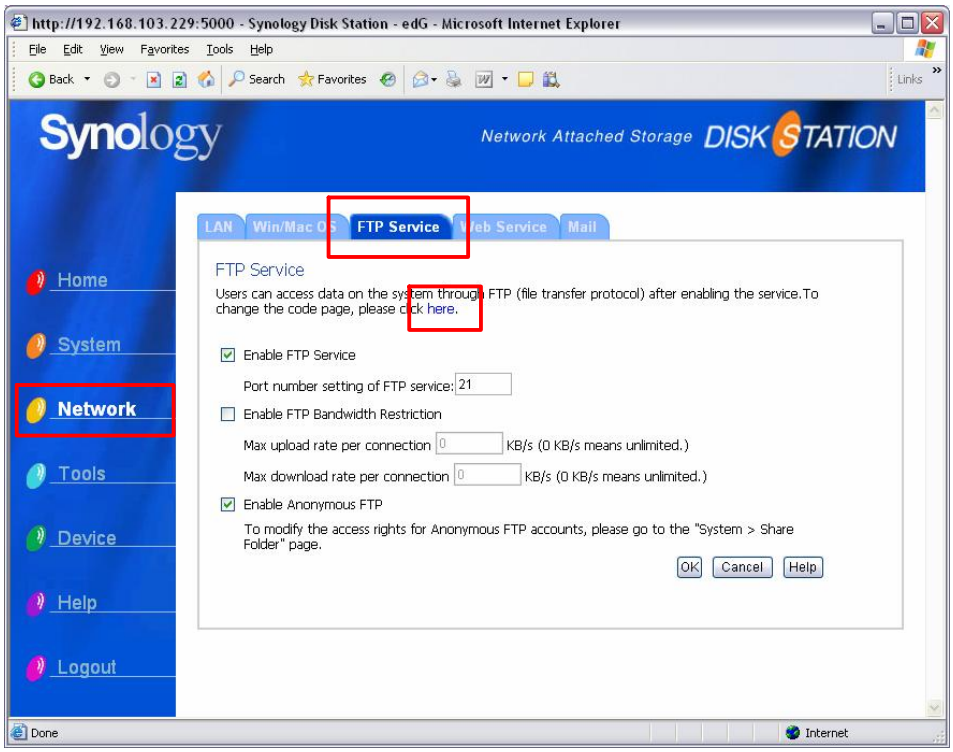
Photo Station's detail description

Please click on "Here" link under "Enable Photo Station".


http://192.168.103.229:5000 - Synology Disk Station - edG - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites
Synology
Network Attached Storage DISK STATION
LAN
Win/Mac OS
FTP Service
Web Service
Mail
Home
System
Network
Tools
Device
Help
Logout
Web Service
Set up additional HTTP port number
This service allows users to access Photo Station and Web Station services with an additional port number they set themselves.
This port number is used by HTTP service.: 80
Enable Photo Station
Users can browse photos via browser after enabling the service.
To view the tuition page of Photo Station, please click here.
Set new albums as public
Enable Web Station
You can build your own web site after enabling the service.
To view the tuition page of Web Station, please click here.
Enable MySQL
You can start using MySQL database to store web site data after enabling the service.
OK
Cancel
Help
Done
Internet

FTP Service

Administrator can enable FTP service on the "Network > FTP Service" page of the Web Management UI. This will allow Windows users and Mac users to share data in Synology Server by FTP Protocol.


http://192.168.103.229:5000 - Synology Disk Station - edG - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites
Synology
Network Attached Storage DISK STATION
LAN Win/Mac OS FTP Service Web Service Mail
Home
System
Network
Tools
Device
Help
Logout
FTP Service
Users can access data on the system through FTP (file transfer protocol) after enabling the service.To change the code page, please click here.
Enable FTP Service
Port number setting of FTP service: 21
Enable FTP Bandwidth Restriction
Max upload rate per connection 0 KB/s (0 KB/s means unlimited.)
Max download rate per connection 0 KB/s (0 KB/s means unlimited.)
Enable Anonymous FTP
To modify the access rights for Anonymous FTP accounts, please go to the "System > Share Folder" page.
OK Cancel Help
Done
Internet

Please Note:

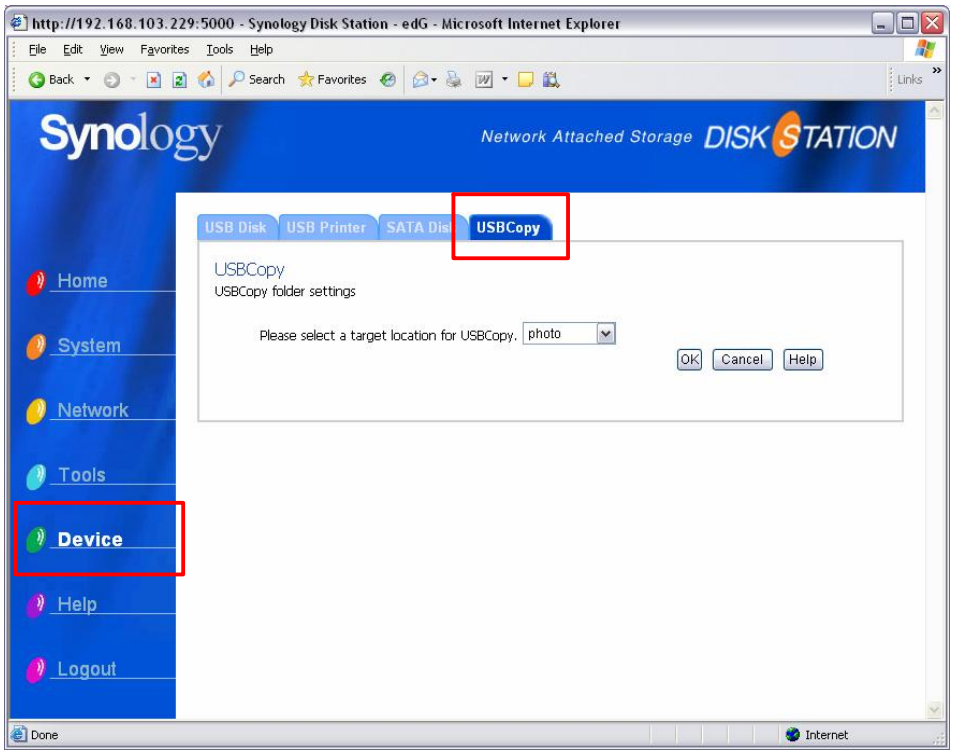
1. Administrator has the option to adjust FTP Bandwidth or enable Anonymous login.
2. FTP Service does not support Unicode. Before enabling FTP Service, please go to “Network > Win/Mac OS” page and setup codepage according to user’s client PC.

USBCopy

When a USB Device is connected to the USB port at the front panel, by pressing the “COPY” button all the data in the USB Device will be copied to Synology Server’s internal HDD.

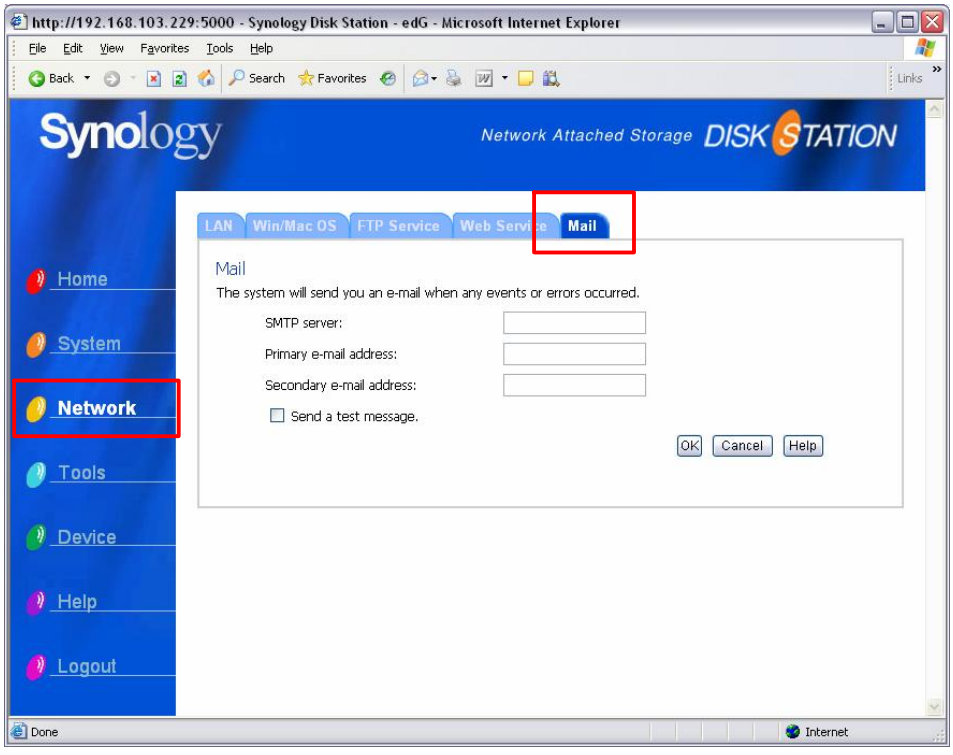
Setting USBCopy Target Location

You can setup USBCopy target location on the “Device > USBCopy” page of the Web Management UI. When pressing the “Copy” button from now on, data will be copied to the target location.



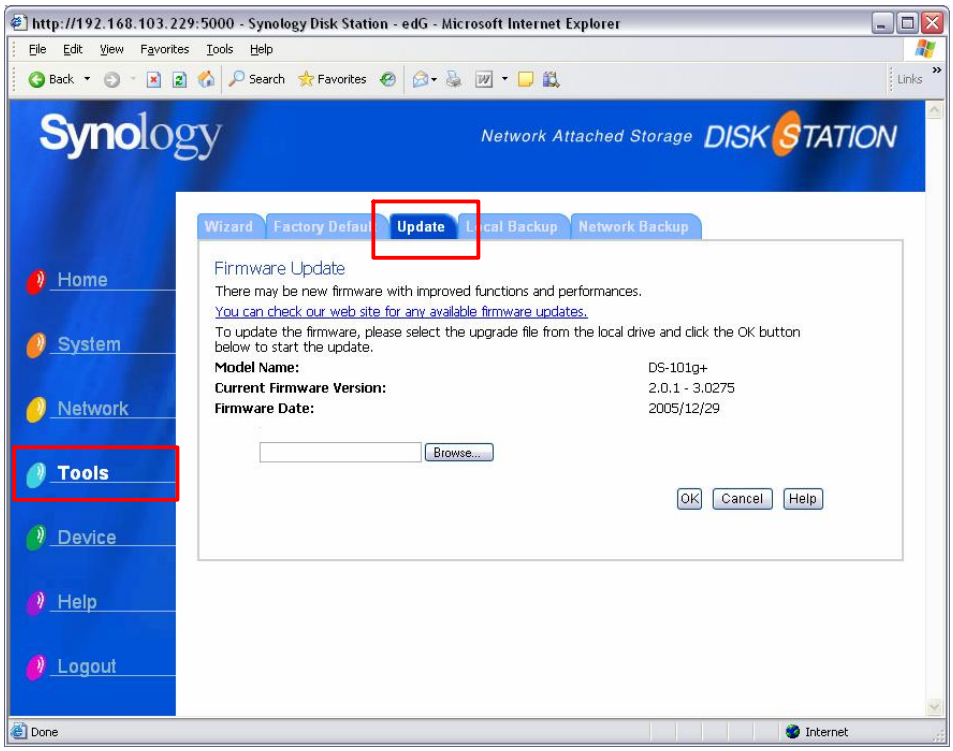
Mail Notification

Administrator can enter email address on the page “Network > Mail”. Synology Server will send email to the address whenever an important event occurs to notify Administrator.



Firmware Update

To keep your Synology Server up to date, Administrator can go to “Tools > Update” page to upgrade firmware.



Expand HDD Capacity

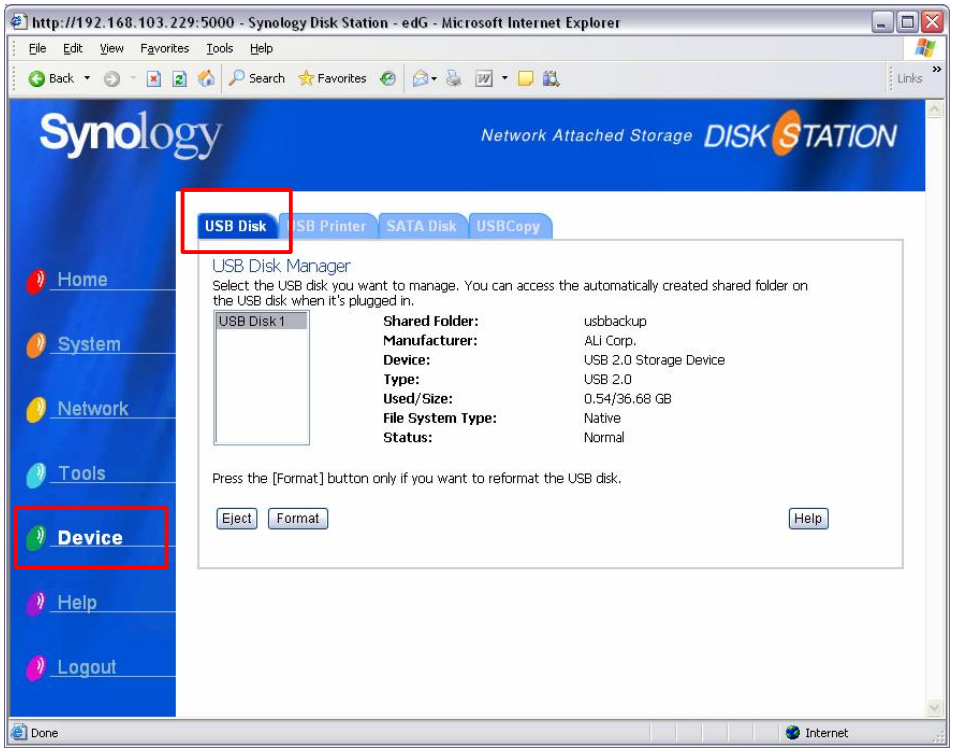
Administrator can expand HDD capacity by connecting external HDD, or replacing a larger capacity internal HDD.

External HDD

External USB HDD

When connecting an external USB HDD to Synology Server's USB port, "usbshare1" shared folder will be created automatically. Upon disconnecting external USB HDD, the shared folder will be removed. For more than 1 external USB HDD is connected, "usbshare2", "usbshare3" will be created accordingly.

To Eject or Format external USB HDD, go to the page "Device > USB Disk" of the Web Management UI.



External SATA HDD

When connecting an external SATA HDD to Synology Server's eSATA port, "satashare" shared folder will be created automatically. Upon disconnecting External SATA HDD, shared folder will be removed.

To Eject or Format external SATA HDD, go to the page "Device > SATA Disk" of the Web Management UI.

Replacing Larger Internal HDD

When the internal HDD storage is run out, Administrator can follow the steps to replace a larger HDD and keep using the original data:

1. Replace the original internal HDD with a larger one.
2. Connect the original HDD to the USB port or eSATA port.
3. Copy the data from the original HDD to the new HDD
4. Remove the original HDD.

Troubleshooting

For any questions about managing your Synology Server, please refer to the “Help” button at every page of the Web Management UI. For any questions other than that, please visit Synology Inc. website (www.synology.com) for further assistant.

Appendix

Recommended Peripherals

Recommended SATA HDD

Brand	Model	Capacity
Seagate	ST3200822AS	200G
Seagate	ST3120026AS	120G
Seagate	ST3300831AS	300G
Seagate	ST3400832AS	400G
Hitachi	HDS724040KLSA80	400G
Hitachi	HDS722516VLSA80	164.7G
Hitachi	HDS722525VLSA80	250G
WD	WD1600JD-00HBB0	160G
Maxtor	DiamondMax Plus 9	60G

Recommended IDE HDD

Brand	Model	Size
Seagate	ST3200822A	200GB
Samsung	SV1604N	160GB
Samsung	SV1203N	120GB
Hitachi	IC35L180AVV207-1	185GB
Hitachi	HDS722525VLAT80	250GB
Hitachi	Deskstar 7K400	400GB
Maxtor	DiamondMax Plus 9	200GB
Maxtor	DiamondMax 16	160GB
Maxtor	DiamondMax 10	300GB
Maxtor	MaxLine II 5A300J0	300GB
Maxtor	MaxLine II Plus 7Y250B0	250GB
WD	WD1600	160GB
WD	WD2500	250GB

Recommended USB Printer

(Unless specified, this table is based on Windows platform)

Brand	Model	Remark
EPSON	CC-600PX	Printer function only.
	E-100	Printer function only.
	LP-1500C	
	LP-2500	
	LP-6100	
	LP-8800C	
	LP-9100	
	LP-9100PS3	
	PM-3700C	
	PM-4000PX	
	PM-760C	
	PM-970C	
	PM-D750	Printer function only.
	PM-G700	
	PM-G800	
	PX-G900	
	PX-V500	
	PX-V600	
hp	DESKJET5160	
	DESKJET5650	
	DESKJET5850	
	LaserJet 2300n	Also supports Mac
	OFFICEJET5510	
	OFFICEJET6150	
	PSC1350	
	PSC2450	
	PSC2550	
	Photosmart 1100c	Also supports Mac
Canon	i320	
	PIXMA iP 1500	
	PIXMA iP 3000	
Brother	HL-2070	

Brand	Model	Remark
	HL-5150D	
	QL-500	
	DCP-110C	No scanner support
	MFC-8840D	No scanner/ fax support

Recommended NTP Server

The main purpose of Network Time Protocol (NTP) is for synchronizing clocks of computer system over data network. We have provided a few recommended NTP servers. For more information about NTP Server, please visit http://www.eecis.udel.edu/~mills/ntp/servers.html

Below are few recommended NTP server:

1. time.apple.com
2. time.asia.apple.com
3. time.euro.apple.com
4. time.nist.gov
5. time.windows.com

For more information, please refer to:
http://ntp.isc.org/bin/view/Servers/WebHome